



## CERTIFICATE OF LABORATORY ACCREDITATION

This is to certify that

**Testing Laboratory**

**Research & Development Center Division**

**Minebea Thai Limited**

**1 Moo 7, Phahon Yothin Road, Km. 51, Chiang Rak Noi, Bang Pa - in, Ayutthaya**

has successfully undergone assessment under the Thai Laboratory Accreditation Scheme (TLAS)

Thai Industrial Standards Institute

for meeting its criteria of competence, which are in accordance with

General requirements for the competence of testing and calibration laboratories

TIS 17025 - 2543 (2000)

ISO/IEC 17025 : 1999

Accreditation No. **TESTING 0165**

The scope of accreditation is as annexed hereto.

Date of Issue : <sup>th</sup> 6 February 2006

Valid until : <sup>th</sup> 5 February 2009

Signature :

(Damri Sukhotanang)

Deputy Permanent Secretary

Chairman, Ministerial Cluster

for Industrial and Entrepreneurial Promotion

Chairman of Industrial Product Standards Council

Initial Date of Issue <sup>th</sup> 6 February 2006

Thai Laboratory Accreditation Scheme, Thai Industrial Standards Institute, Ministry of Industry

# Scope of Accreditation for Testing

**Laboratory Name : Testing Laboratory**

**Research & Development Center Division**

**Minebea Thai Limited**

**Premises : 1 Moo 7, Phahon Yothin Road, Km. 51, Chiang Rak Noi, Bang Pa - in, Ayutthaya**

**Accreditation No. : TESTING 0165**

**Laboratory Status :**     Permanent     Site     Temporary     Mobile

Item/Product Tested	Specific Test/ Range of Measurement	Standard/Test Method/ Technique Used
1. Plastics	<ul style="list-style-type: none"> <li>- Cadmium                             <ul style="list-style-type: none"> <li>• Limit of Detection (LOD) : 0.006 mg/kg (3.0 mg/kg sample)</li> <li>• Limit of Quantitation (LOQ) : 0.008 mg/kg (4.0 mg/kg sample)</li> </ul> </li> <li>- Chromium                             <ul style="list-style-type: none"> <li>• Limit of Detection (LOD) : 0.005 mg/kg (2.5 mg/kg sample)</li> <li>• Limit of Quantitation (LOQ) : 0.006 mg/kg (3.0 mg/kg sample)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- In-house method : RDMT-1602 based on U.S.EPA 3052 : microwave digestion and U.S.EPA 6010 B : inductively coupled plasma - atomic emission spectrometry (ICP - AES)</li> </ul>

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**Laboratory Name : Testing Laboratory**

**Research & Development Center Division**

**Minebea Thai Limited**

**Premises : 1 Moo 7, Phahon Yothin Road, Km. 51, Chiang Rak Noi, Bang Pa - in, Ayutthaya**

**Accreditation No. : TESTING 0165**

**Laboratory Status :**     **Permanent**     **Site**     **Temporary**     **Mobile**

Item/Product Tested	Specific Test/ Range of Measurement	Standard/Test Method/ Technique Used
2. Plastics (cont.)	<ul style="list-style-type: none"> <li>- Lead                             <ul style="list-style-type: none"> <li>• Limit of Detection (LOD) : 0.056 mg/kg (28.0 mg/kg sample)</li> <li>• Limit of Quantitation (LOQ) : 0.071 mg/kg (35.5 mg/kg sample)</li> </ul> </li> <li>- Mercury                             <ul style="list-style-type: none"> <li>• Limit of Detection (LOD) : 0.011 mg/kg (5.5 mg/kg sample)</li> <li>• Limit of Quantitation (LOQ) : 0.014 mg/kg (7.0 mg/kg sample)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- In-house method : RDMT-1602 based on U.S.EPA 3052 : microwave digestion and U.S.EPA 6010 B : inductively coupled plasma - atomic emission spectrometry (ICP - AES)</li> </ul>

# Scope of Accreditation for Testing

Laboratory Name : Testing Laboratory

Research & Development Center Division

Minebea Thai Company Limited

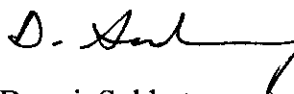
Premises : 1 Moo 7, Phahon Yothin Road, Km. 51, Chiang Rak Noi, Bang Pa - in, Ayutthaya

Accreditation No. : TESTING 0165

Laboratory Status :  Permanent  Site  Temporary  Mobile

Item/Product Tested	Specific Test/ Range of Measurement	Standard/Test Method/ Technique Used
2. Plastics	<ul style="list-style-type: none"><li>- Cadmium</li><li>• Limit of Detection (LOD) : 0.006 mg/kg (3.0 mg/kg sample)</li><li>• Limit of Quantitation (LOQ) : 0.008 mg/kg (4.0 mg/kg sample)</li></ul>	<ul style="list-style-type: none"><li>- BS EN 1122 : plastics - Determination of cadmium - wet decomposition method and U.S.EPA 6010 B : inductively coupled plasma - atomic emission spectrometry (ICP - AES)</li></ul>

Date of Issue : <sup>th</sup> 6 February 2006

Signature : 

(Damri Sukhotanang)  
Deputy Permanent Secretary  
Chairman, Ministerial Cluster

for Industrial and Entrepreneurial Promotion  
Chairman of Industrial Product Standards Council

Initial Date of Issue <sup>th</sup> 6 February 2006 Page 3/3

Issue No. 1